

SUBSTITUTE FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 04599/005001		SERIAL NO. 08/914,332	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) (37 CFR 1.98(b))				APPLICANT Scott W. Van Arsdell et al.			
				FILING DATE July 14, 1997		GROUP	
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO
<i>R2</i>	AA	0 635 572 A2	06/13/94	<del>Europe</del> <i>EPO</i>	—	—	
<i>Abstract Only</i>	AB	WO 94/08023	04/14/94	PCT	—	—	
	AC						
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)							
<i>R2</i>	AD	Birch et al., "Biotin synthase from <i>Escherichia coli</i> , an Investigation of the Low Molecular Weight and Protein Components Required for Activity <i>in vitro</i> ", J. Biol. Chem., 270:19158-19165, 1995.					
	AE	Bower et al., "Cloning, Sequencing, and Characterization of the <i>Bacillus subtilis</i> Biotin Biosynthetic Operon", J. Bacteriology, 178:4122-4130, 1996.					
	AF	Cohen, "The Common pathway to Lysine, Methionine, and Threonine", Addison-Wesley Pub. Co., 1983					
	AG	Coque et al., "A Gene Encoding Lysine 6-Aminotransferase, Which Forms the $\beta$ -Lactam Precursor $\alpha$ -Aminoadipic Acid,...", J. Bacteriology, 173:6258-6264, 1991.					
	AH	Cronan, Jr., "The <i>E. coli bio</i> Operon: Transcriptional Repression by an Essential Protein Modification Enzyme", Cell, Vol. 58, Minireview, 1989.					
	AI	Eisenberg et al., "Biosynthesis of 7,8-Diaminopelargonic Acid, a Biotin Intermediate, from 7-Keto-8-Aminopelargonic Acid and <i>S</i> -Adenosyl-L-Methionine", J. Bacteriology, 108:1135-1140, 1971.					
	AJ	Florentin et al., "On the mechanism of biotin synthase of <i>Bacillus sphaericus</i> ", Sciences de la vie/Life sciences, 317:485-488, 1994.					
	AK	Fujisawa et al., "Bioconversion of Dethiobiotin into Biotin by Resting Cells and Protoplasts of <i>Bacillus sphaericus bioB</i> Transformant", Biosci. Biotech. Biochem., 57:740-744, 1993.					
	AL	Fujisawa et al., "Bioconversion of dethiobiotin to biotin by a cell-free system of a <i>bioYB</i> transformant of <i>Bacillus sphaericus</i> ", FEMS Microbiol. Letters, 110:1-4, 1993.					
	AM	Gloeckler et al., "Cloning and characterization of the <i>Bacillus sphaericus</i> genes controlling the bioconversion of pimelate into dethiobiotin", Gene, Vol. 87, No. 1, 1990.					
	AN	Ifuku et al., "Conversion off Dethiobiotin to Biotin in Cell-free Extracts of <i>Escherichia coli</i> ", Biosci. Biotech. Biochem, 56:1780-1785, 1992.					
<i>↓</i>	AO	Izumi et al., "Characterization of Biotin Biosynthetic Enzymes of <i>Bacillus sphaericus</i> : a Dethiobiotin producing Bacterium", Agric. Biol. Chem., 45:1983-1989, 1981.					
EXAMINER <i>Peter Jung</i>				DATE CONSIDERED <i>1/4/99</i>			
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R	BA	S	Lowe et al., "Aminotransferase activities in <i>Trichomonas vaginalis</i> ", Mol. Biochem. Parasitology, 20:65-74, 1986.				
	BB	S	Masuda et al., "Further Improvement of D-Biotin Production by a Recombinant Strain of <i>Serratia marcescens</i> ", Process Biochem., 30:553-562, 1995.				
	BC	S	Ohshiro et al., "Enzymatic Conversion of Dethiobiotin to Biotin in Cell-free Extracts of a <i>Bacillus sphaericus bioB</i> Transformant", Biosci. Biotech. Biochem., 58:1738-1741, 1994.				
	BD	S	Sakurai et al., "Improvement of a d-biotin-hyperproducing recombinant strain of <i>Serratia marcescens</i> ", J. Biotech., 36:63-73, 1994.				
	BE	S	Sanyal et al., "Biotin Synthase: Purification, Characterization as a [2Fe-2S] Cluster Protein, and <i>in Vitro</i> Activity of the <i>Escherichia coli bioB</i> Gene Product", Biochem., 33:3625-3631, 1994.				
	BF	S	Schmidt et al., "A novel enzyme, L-lysine: pyruvate aminotransferase, catalyses the first step of lysine catabolism in <i>Pichia guilliermondii</i> ", FEMS Microbiol. Letters, 49:203-206, 1988.				
	BG	S	Soda et al., "L-Lysine- $\alpha$ -Ketoglutarate Aminotransferase. I. Identification of a Product, $\Delta^1$ -Piperidine-6-carboxylic Acid", Biochem., 7:4102-4109, 1968.				
	BH	S	Soda et al., "L-Lysine- $\alpha$ -Ketoglutarate Aminotransferase. II. Purification, Crystallization, and Properties", Biochem., 7:4110-4112, 1968.				
	BI	S	Stoner et al., "Biosynthesis of 7,8-Diaminopelargonic Acid from 7-Keto-8-aminopelargonic Acid and S-Adenosyl-L-methionine", J. Biol. Chem., 250:4037-4043, 1975.				
	BJ	S	Stoner et al., "Purification and Properties of 7,8-Diaminopelargonic Acid Aminotransferase", J. Biol. Chem., 250:4029-4036, 1975.				
V	BK	S	Tobin et al., "Localization of the Lysine $\epsilon$ -Aminotransferase ( <i>lat</i> ) and $\delta$ -(L- $\alpha$ -Aminoadipyl)-L-Cysteinyl-D-Valine synthetase ( <i>pcbAB</i> ) Genes...", J. Bacteriology, 173:6223-6229, 1991.				
	BL						
	BM						
	BN						
	BO						
EXAMINER <i>Peter Tunney</i>				DATE CONSIDERED 1/4/99			
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